

B<sup>1</sup> 7. (Amended) The bone plating system of claim 23 wherein the first plate hole has a substantially conical shape.

B<sup>2</sup> 8. (Amended) The bone plating system of claim 23 wherein the bone plate has a trapezoidal shaped cross section in regions between the first and second plate holes for minimizing contact between bone and the bone-contacting surface.

B<sup>2</sup> 9. (Amended) The bone plating system of claim 23 wherein at least one of the second plate holes is longitudinally elongated and has an edge inclined at an angle to the upper surface toward the bone-contacting surface for displacing the bone plate when engaged by the head of a second bone screw.

B<sup>3</sup> 10. (Amended) The bone plating system of claim 27 wherein the head portion is provided with suture holes.

Please add the following new claims:

B<sup>4</sup> 11. 24. (New) A bone plating system for fixation of bone comprising:  
 a bone plate having:  
     an upper surface;  
     a bone-contacting surface;  
     at least one first hole passing through the upper and bone-contacting surfaces  
 and having a thread; and  
     at least one second hole passing through the upper and bone-contacting  
 surfaces;  
     a first screw having a shaft with a thread for engaging bone and a head with a thread  
 configured and dimensioned to mate with the thread of the first hole; and  
     a second screw having a shaft with a thread for engaging bone and a head, wherein  
 the first and second screws remain seated in their respective holes for substantially as long as  
 the bone plate is implanted,  
     wherein the bone plate includes a plurality of first and second holes, and a  
 corresponding plurality of first and second screws are provided, and  
     wherein the bone plate includes a head portion configured and dimensioned to  
 conform to a metaphysis of a bone and a shaft portion configured and dimensioned to  
 conform to a diaphysis of a bone and wherein the head portion has a curved surface, includes

an anterior fork substantially parallel to an anterior side of the shaft portion, and includes a posterior fork extending out from a posterior side of the shaft portion.

17 25. (New) A bone plating system for fixation of bone comprising:  
a bone plate having:  
an upper surface;  
a bone-contacting surface;  
at least one first hole passing through the upper and bone-contacting surfaces and having a thread; and  
at least one second hole passing through the upper and bone-contacting surfaces;  
a first screw having a shaft with a thread for engaging bone and a head with a thread configured and dimensioned to mate with the thread of the first hole; and  
a second screw having a shaft with a thread for engaging bone and a head, wherein the first and second screws remain seated in their respective holes for substantially as long as the bone plate is implanted,  
wherein the bone plate includes a plurality of first and second holes, and a corresponding plurality of first and second screws are provided, and  
wherein the bone plate includes a head portion configured and dimensioned to conform to a metaphysis of a bone and a shaft portion configured and dimensioned to conform to a diaphysis of a bone and wherein the shaft portion has both first and second plate holes.

18 26. (New) A bone plating system for fixation of bone comprising:  
a bone plate having:  
an upper surface;  
a bone-contacting surface;  
at least one first hole passing through the upper and bone-contacting surfaces and having a thread; and  
at least one second hole passing through the upper and bone-contacting surfaces;  
a first screw having a shaft with a thread for engaging bone and a head with a thread configured and dimensioned to mate with the thread of the first hole; and  
a second screw having a shaft with a thread for engaging bone and a head, wherein the first and second screws remain seated in their respective holes for substantially as long as the bone plate is implanted,

wherein the bone plate includes a plurality of first and second holes, and a corresponding plurality of first and second screws are provided, and

wherein the bone plate includes a head portion configured and dimensioned to conform to a metaphysis of a bone and a shaft portion configured and dimensioned to conform to a diaphysis of a bone and wherein the shaft portion has a trapezoidal shaped cross section in regions between the first and second screw holes for minimizing contact between bone and the bone-contacting surface.

27. (New) A bone plating system for fixation of bone comprising:  
a bone plate having:

an upper surface;

a bone-contacting surface;

at least one first hole passing through the upper and bone-contacting surfaces and having a thread; and

at least one second hole passing through the upper and bone-contacting surfaces;

a first screw having a shaft with a thread for engaging bone and a head with a thread configured and dimensioned to mate with the thread of the first hole; and

a second screw having a shaft with a thread for engaging bone and a head, wherein the first and second screws remain seated in their respective holes for substantially as long as the bone plate is implanted,

wherein the bone plate includes a plurality of first and second holes, and a corresponding plurality of first and second screws are provided, and

wherein the bone plate includes a head portion configured and dimensioned to conform to a metaphysis of a bone and a shaft portion configured and dimensioned to conform to a diaphysis of a bone and wherein the head portion flares outward from the shaft.